
Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed May 23 12:18:11 EDT 2007

Validated By CRFValidator v 1.0.2

Application No: 10578469 Version No: 1.1

Input Set:

Output Set:

Started: 2007-05-23 12:17:57.921 **Finished:** 2007-05-23 12:17:58.034

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 113 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 37
Actual SeqID Count: 37

<110> Kumar, Chandrika <120> Cloning and characterization of 5' Flanking Regions of a Human Aggrecanase-1 Gene <130> 4-33474 <140> 10578469 <141> 2006-05-08 <150> 60/517,829 <151> 2003-11-06 <160> 37 <170> FastSEO for Windows Version 4.0 <210> 1 <211> 2403 <212> DNA <213> Homo sapiens <400> 1 ctgcatttat ttgccttgat ccagcctggg agaagtcagg atagactttg ggctgcttgg 60 ccctggaggc agcttgagct gggactgggg tggggggctc ctgaggggct gcctaggaca 120 ctgcagcttt tgtgccttct ccctgctgcc aacaccccca cacacactgc tgcagccact 180 ctaaageeet ttgtetttea ttgettagte acceeetttg teeteatete aaatagggga 240 gtggaaaggg gcagtagagt tctctggtga tagctcctct tgcccctgcc ccttctggtc 300 teceaecett tgteegaete etetagteee ageeeegttg gettagaace agggteagge 360 aagtggtggg tcaagaggtg ggtctggcag tcacaagggg gtgggtgatc caggaagtga 420 taggcaccag ggcaggtatt accgacctga gcaggaaggg agggggaaag gaagtattct 480 gacggatatg atatgcgggg gacaggaggt gacaaagcag agtgaatagg ggaatagagg 540 caagaggagg tggtccactt ctgggaaagg aaagagactg ctgactgcac tctccttcct 600 ggggatttcc tggggaaaca agcagccaga ggatggggtg agcagaaatt gcccctactt 660 ctgaaccctt ccttgccttg agagttcata cccaagacct cttttccgag ttccctccta 720 tccaaagcca aaggaataat ttgcttcctt tccctaacac cacctcttcc tccccagcca 780 ctttccccac cccaggcaat ggatttctcc cagtacccta atttccctat atgcacaatg 840 ctgtctccac cctctccctg ccccagggag aattaaaaag aaaagatgac tagatattcc 900 aggaaccact gggttctcag agcaaggtgg ggtggatggt gggagccagg tggggattct 960 cccagattga tactgggtga atctgggttc ctgagagcaa gtcttgccta tgctgggggc 1020 tggctgactt gaggctgggg gagggtttag ggcagttggg agtgggtagg agcagggcca 1080 aaagcctggg ggaagctact gggagctggg ccagggaaat ggggagtcag gaagtgggga 1140 gggggaaccc tggggggaaa tggaggcgga atggctgttc tgggctttgg agggggtggg 1200 tagtggtaac tcaggaaggg ggatcctgag ggagagaagg gacgttagaa aagaggaggt 1260 gccaccctgg atccgccttc tataaaagga aaagtcgtta acccctcctg ccttgtcatc 1320 tgccgcctct gttatgttca ttccaagcag gatcatccta cctttgggca gtcaactccc 1380 tgatcactgt ctccttgcct cccccaatgt tctgcctttt ttactcttcc cagctgctca 1440 gttctatcct gagccatgtc aagctacctc ttttatttgt tcttccctct tgatgcctcc 1500 ttacctgttc cctaccctct tttctcaggc agctcactca gtcccctcag ccctggaaac 1560 cagccactag ggccaaaggg cagcatgagg gagccttgag aaaagagaag ccatggtagg 1620 ttagactata agagcaggaa ttctcccagg accgtgatcc tatctgtgca tgccggccag 1680 gccctttccc tcactctctg cctctcctgg ggctctgtcc caccaaaaag ggaaagagac 1740 agctgagggc tgattgtggg gtttgggaaa aggctatgtc atcagctggc ccagtgccta 1800

ttatccattc ggctgctaga gattcccctc ccctgggcaa gtcccatttt tttgggaagc 1860

<210> 2 <211> 2003

<212> DNA

<213> Homo sapiens

<400> 2

gtgggtgatc caggaagtga taggcaccag ggcaggtatt accgacctga gcaggaaggg 60 agggggaaag gaagtattet gaeggatatg atatgegggg gaeaggaggt gaeaaageag 120 agtgaatagg ggaatagagg caagaggagg tggtccactt ctgggaaagg aaagagactg 180 etgaetgeae teteetteet ggggatttee tggggaaaca ageageeaga ggatggggtg $240\,$ cttttccgag ttccctccta tccaaagcca aaggaataat ttgcttcctt tccctaacac 360 cacctettee tecceageea ettteeceae eccaggeaat ggatttetee eagtaceeta 420 atttccctat atgcacaatg ctgtctccac cctctccctg ccccagggag aattaaaaag 480 aaaagatgac tagatattcc aggaaccact gggttctcag agcaaggtgg ggtggatggt 540 gggagccagg tggggattet eccagattga tactgggtga atetgggtte etgagagcaa 600 gtcttgccta tgctgggggc tggctgactt gaggctgggg gagggtttag ggcagttggg 660 agtgggtagg agcagggcca aaagcctggg ggaagctact gggagctggg ccagggaaat 720 ggggagtcag gaagtgggga gggggaaccc tggggggaaa tggaggcgga atggctgttc 780 tgggctttgg agggggtggg tagtggtaac tcaggaaggg ggatcctgag ggagagaagg 840 gacgttagaa aagaggaggt gccaccctgg atccgccttc tataaaagga aaagtcgtta 900 accectectg cettgtcate tgeegeetet gttatgttca ttecaageag gateateeta 960 cetttgggca gtcaactccc tgatcactgt ctccttgcct cccccaatgt tctgcctttt 1020 ttactcttcc cagetgetca gttetatect gagecatgte aagetacete ttttatttgt 1080 tettecetet tgatgeetee ttacetgtte ectaceetet ttteteagge ageteaetea 1140 gtcccctcag ccctggaaac cagccactag ggccaaaggg cagcatgagg gagccttgag 1200 aaaagagaag ccatggtagg ttagactata agagcaggaa ttctcccagg accgtgatcc 1260 tatetgtgca tgeeggeeag geeettteee teactetetg eeteteetgg ggetetgtee 1320 caccaaaaag ggaaagagac agctgagggc tgattgtggg gtttgggaaa aggctatgtc 1380 atcagctggc ccagtgccta ttatccattc ggctgctaga gattcccctc ccctgggcaa 1440 gtcccatttt tttgggaagc gatgatacac ccatctgagt cccaccgaca gagetcaget 1500 gagtggctta gagatcagcc aatcaatcgc agaggctcac catgcttaaa agagctggcg 1560 cggagagagg ctggggagaa cccacaggga gacccacaga cacatatgca cgagagagac 1620 agaagcggcc cagacagagt cctacagagg gagaggccag agaagctgca gaagacacag 1740 gcagggagag acaaagatcc aggaaaggag ggctcaggag gagagtttgg agaagccaga 1800 cccctgggca cctctcccaa gcccaaggac taagttttct ccatttcctt taacggtcct 1860 cagcccttct gaaaactttg cctctgacct tggcaggagt ccaagccccc aggctacaga 1920 gaggagettt ccaaagetag ggtgtggagg acttggtgcc ctagacggcc tcagtccctc 1980 ccagctgcag taccagtgcc atg 2003

<210> 3

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 3

ggatttctcc cagtacccta atttccctat atgcacaatg ctgtctccac cctctccctg 60 ccccagggag aattaaaaag aaaagatgac tagatattcc aggaaccact gggttctcag 120 agcaaggtgg ggtggatggt gggagccagg tggggattct cccagattga tactgggtga 180 atctgggttc ctgagagcaa gtcttgccta tgctgggggc tggctgactt gaggctgggg 240 gagggtttag ggcagttggg agtgggtagg agcagggcca aaagcctggg ggaagctact 300 gggagctggg ccagggaaat ggggagtcag gaagtgggga gggggaaccc tggggggaaa 360 tggaggcgga atggctgttc tgggctttgg agggggtggg tagtggtaac tcaggaaggg 420 ggatcctgag ggagagaagg gacgttagaa aagaggaggt gccaccctgg atccgccttc 480 tataaaagga aaagtegtta acceeteetg cettgteate tgeegeetet gttatgttea 540 ttccaagcag gatcatccta cctttgggca gtcaactccc tgatcactgt ctccttgcct 600 cccccaatgt tctgcctttt ttactcttcc cagctgctca gttctatcct gagccatgtc 660 aagctacctc ttttatttgt tcttccctct tgatgcctcc ttacctgttc cctaccctct 720 tttctcaggc agctcactca gtcccctcag ccctggaaac cagccactag ggccaaaggg 780 cagcatgagg gagccttgag aaaagagaag ccatggtagg ttagactata agagcaggaa 840 ttctcccagg accgtgatcc tatctgtgca tgccggccag gccctttccc tcactctctg 900 cctctcctgg ggctctgtcc caccaaaaag ggaaagagac agctgagggc tgattgtggg 960 gtttgggaaa aggctatgtc atcagctggc ccagtgccta ttatccattc ggctgctaga 1020 gatteceete eeetgggeaa gteeeatttt tttgggaage gatgataeae eeatetgagt 1080 cccaccgaca gagctcagct gagtggctta gagatcagcc aatcaatcgc agaggctcac 1140 catgcttaaa agagctggcg cggagagagg ctggggagaa cccacaggga gacccacaga 1200 cacatatgca cgagagagac agaggaggaa agagacagag acaaaggcac agcggaagaa 1260 agaagctgca gaagacacag gcagggagag acaaagatcc aggaaaggag ggctcaggag 1380 gagagtttgg agaagccaga cccctgggca cctctcccaa gcccaaggac taagttttct 1440 ccatttcctt taacggtcct cagcccttct gaaaactttg cctctgacct tggcaggagt 1500 ccaagccccc aggctacaga gaggagcttt ccaaagctag ggtgtggagg acttggtgcc 1560 1603 ctagacggcc tcagtccctc ccagctgcag taccagtgcc atg

<210> 4 <211> 1203 <212> DNA

<213> Homo sapiens

<400> 4

tagtggtaac tcaggaaggg ggatcctgag ggagagaagg gacgttagaa aagaggaggt 60 gccaccetgg atccgccttc tataaaagga aaagtcgtta acccctcctg ccttgtcatc 120 tgccgcctct gttatgttca ttccaagcag gatcatccta cctttgggca gtcaactccc 180 tgatcactgt ctccttgcct cccccaatgt tctgcctttt ttactcttcc cagctgctca 240 gttetateet gagecatgte aagetaeete tittatitgt tetteeetet tgatgeetee 300 ttacctgttc cctaccctct tttctcaggc agctcactca gtcccctcag ccctggaaac 360 cagccactag ggccaaaggg cagcatgagg gagccttgag aaaagagaag ccatggtagg 420 ttagactata agagcaggaa ttctcccagg accgtgatcc tatctgtgca tgccggccag 480 gccctttccc tcactctctg cctctcctgg ggctctgtcc caccaaaaag ggaaagagac 540 agctgagggc tgattgtggg gtttgggaaa aggctatgtc atcagctggc ccagtgccta 600 ttatccattc ggctgctaga gattcccctc ccctgggcaa gtcccatttt tttgggaagc 660 gatgatacac ccatctgagt cccaccgaca gagctcagct gagtggctta gagatcagcc 720 aatcaatcgc agaggctcac catgcttaaa agagctggcg cggagagagg ctggggagaa 780 cccacaggga gacccacaga cacatatgca cgagagagac agaggaggaa agagacagag 840 cctacagagg gagaggccag agaagctgca gaagacacag gcagggagag acaaagatcc 960 aggaaaggag ggctcaggag gagagtttgg agaagccaga cccctgggca cctctcccaa 1020 gcccaaggac taagttttct ccatttcctt taacggtcct cagcccttct gaaaactttg 1080 cctctgacct tggcaggagt ccaagccccc aggctacaga gaggagcttt ccaaagctag 1140 ggtgtggagg acttggtgcc ctagacggcc tcagtccctc ccagctgcag taccagtgcc 1200 1203 atg

```
<210> 5
<211> 803
<212> DNA
<213> Homo sapiens
<400> 5
aaaagagaag ccatggtagg ttagactata agagcaggaa ttctcccagg accgtgatcc 60
tatetgtgca tgccggccag gccctttccc tcactctctg cctctcctgg ggctctgtcc 120
caccaaaaag ggaaagagac agctgagggc tgattgtggg gtttgggaaa aggctatgtc 180
atcagctggc ccagtgccta ttatccattc ggctgctaga gattcccctc ccctgggcaa 240
gtcccatttt tttgggaagc gatgatacac ccatctgagt cccaccgaca gagctcagct 300
gagtggctta gagatcagcc aatcaatcgc agaggctcac catgcttaaa agagctggcg 360
cggagagagg ctggggagaa cccacaggga gacccacaga cacatatgca cgagagagac 420
agaageggee cagacagagt cetacagagg gagaggeeag agaagetgea gaagacacag 540
gcagggagag acaaagatcc aggaaaggag ggctcaggag gagagtttgg agaagccaga 600
cccctgggca cctctcccaa gcccaaggac taagttttct ccatttcctt taacggtcct 660
cagcccttct gaaaactttg cctctgacct tggcaggagt ccaagccccc aggctacaga 720
gaggagettt ccaaagetag ggtgtggagg acttggtgee ctagaeggee teagteeete 780
                                                             803
ccagctgcag taccagtgcc atg
<210> 6
<211> 403
<212> DNA
<213> Homo sapiens
<400> 6
cacatatgca cgagagagac agaggaggaa agagacagag acaaaggcac agcggaagaa 60
agaagctgca gaagacacag gcagggagag acaaagatcc aggaaaggag ggctcaggag 180
gagagtttgg agaagccaga cccctgggca cctctcccaa gcccaaggac taagttttct 240
ccatttcctt taacggtcct cagcccttct gaaaactttg cctctgacct tggcaggagt 300
ccaagccccc aggctacaga gaggagcttt ccaaagctag ggtgtggagg acttggtgcc 360
                                                             403
ctagacggcc tcagtccctc ccagctgcag taccagtgcc atg
<210> 7
<211> 21
<212> DNA
<213> Homo sapiens
<400> 7
tttccctggc aaggactatg a
                                                             21
<210> 8
<211> 17
<212> DNA
<213> Homo sapiens
<400> 8
                                                             17
aatggcgtga gtcgggc
<210> 9
<211> 26
<212> DNA
<213> Homo sapiens
```

tgatctcttt	tggaattaag	gagcat		26
<210> 10				
<211> 23				
<212> DNA				
<213> Homo	sapiens			
12101 1101110	Duplomb			
<400> 10				
atgggcatct	cctccataat	tta		23
333		3		
<210> 11				
<211> 19				
<212> DNA				
<213> Homo	sapiens			
<400> 11				
gcaaaccttc	aaggcagcc			19
<210> 12				
<211> 19				
<212> DNA				
<213> Homo	sapiens			
<400> 12				
tgctgtttgc	ctcggacat			19
1010: 10				
<210> 13				
<211> 33				
<212> DNA				
<213> Homo	sapiens			
<400> 13				
	gctgcattta	tttaccttaa	tcc	33
gegegeeegu	geegeaceea	ceegeeeega		,,
<210> 14				
<211> 33				
<212> DNA				
<213> Homo	sapiens			
<400> 14				
gcgcgaagct	tggcactggt	actgcagctg	gga	33
<210> 15				
<211> 33				
<212> DNA				
<213> Homo	sapiens			
<400> 15				
gcgcgctcga	ggtgggtgat	ccaggaagtg	ata	33
<210> 16				
<210> 16				
<211> 36 <212> DNA				
	ganions			
<213> Homo	saprens			
<400> 16				
	ggatttctcc	cagtacccta	atttcc	36

<210> 17				
<211> 33				
<212> DNA				
<213> Homo	sapiens			
<400> 17				
	gtagtggtaa	ctcaggaagg	aaa	33
9-9-99	99-99		999	
<210> 18				
<211> 33				
<211> 33				
<213> Homo	saprens			
.400. 10				
<400> 18				
gcgcgctcga	gaaaagagaa	gccatggtag	gtt	33
<210> 19				
<211> 33				
<212> DNA				
<213> Homo	sapiens			
<400> 19				
gcgcgctcga	gcacatatgc	acgagagaga	cag	33
<210> 20				
<211> 22				
<212> DNA				
<213> Homo	sapiens			
1231 1131113	Dapidino			
<400> 20				
	gatttcctgg	aa		22
ccccccggg	gacccoocgg	99		
<210> 21				
<211> 22				
<212> DNA				
<212> BNA <213> Homo	ganiong			
\213> HOIIIO	saprens			
<400> 21				
				~ ~
ccccaggaaa	tccccaggaa	99		22
.010: 00				
<210> 22				
<211> 22				
<212> DNA				
<213> Homo	sapiens			
<400> 22				
ccttcctgga	gatttcctgg	gg		22
<210> 23				
<211> 22				
<212> DNA				
<213> Homo	sapiens			
<400> 23				
ccccaggaaa	tctccaggaa	gg		22

<210> 24			
<211> 20			
<212> DNA			
<213> Homo	sapiens		
<400> 24			
cattgcttag	tcaccccctt		20
<210> 25			
<211> 20			
<212> DNA			
<213> Homo	sapiens		
<400> 25			
aagggggtga	ctaagcaatg		20
<210> 26			
<211> 20			
<212> DNA			
<213> Homo	sapiens		
<400> 26			
cattgcttgg	gcaccccctt		20
<210> 27			
<211> 20			
<212> DNA			
<213> Homo	sapiens		
<400> 27			
aagggggtgc	ccaagcaatg		20
<210> 28			
<211> 27			
<212> DNA			
<213> Homo	sapiens		
<400> 28			
ggtccacttc	tgggaaagga	aagagac	27
<210> 29			
<211> 27			
<212> DNA			
<213> Homo	sapiens		
<400> 29			
gtctctttcc	tttcccagaa	gtggacc	27
-010: 00			
<210> 30			
<211> 27			
<212> DNA			
<213> Homo	sapiens		
<100> 20			
<400> 30	h		0.5
ggtccacata	tgggaaagga	aayagac	27

<211> <212> :	DNA				
<213>	Homo	sapiens			
<400>		tttcccatat	gtggacc		27
<210> <211>	37				
<212> :		sapiens			
<400>		cattgcttgg	gcaccccctt	tgtcctc	37
<210> <211>					
<212>	DNA				
<213>	Homo	sapiens			
<400> gaggac		ggggtgccca	agcaatgaaa	gacaaag	37
<210> <211>					
<212> 3 <213> 3		sapiens			
<400>					
caagag	gagg	tggtccacat	atgggaaagg	aaagagac	38
<210> <211>					
<212>		sapiens			
		Saprens			
<400> gtctct		tttcccatat	gtggaccacc	tcctcttg	38
<210> <211>					
<211>					
<213>	Homo	sapiens			
<400>			+ a a + a a a a a a		2.2
cactct	CCTT	cctggagatt	tcctggggaa	ac	32
<210> <211>					
<212>					
<213>	Homo	sapiens			
<400>				.	2.0
gtttcc	ccag	gaaatctcca	ggaaggagag	тg	32